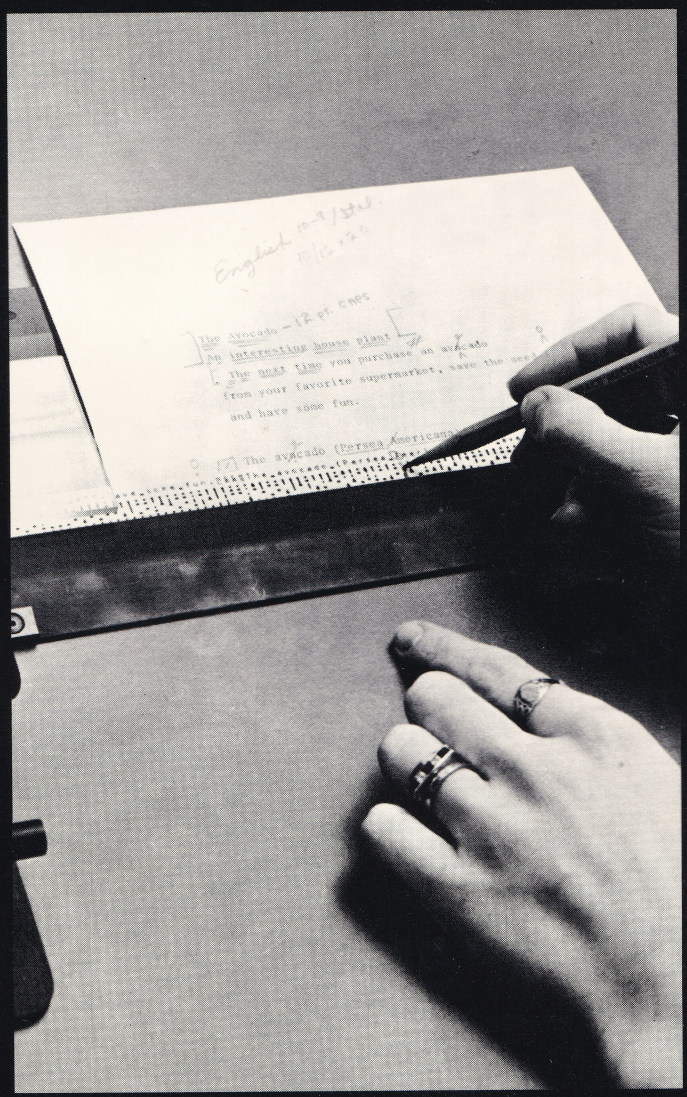
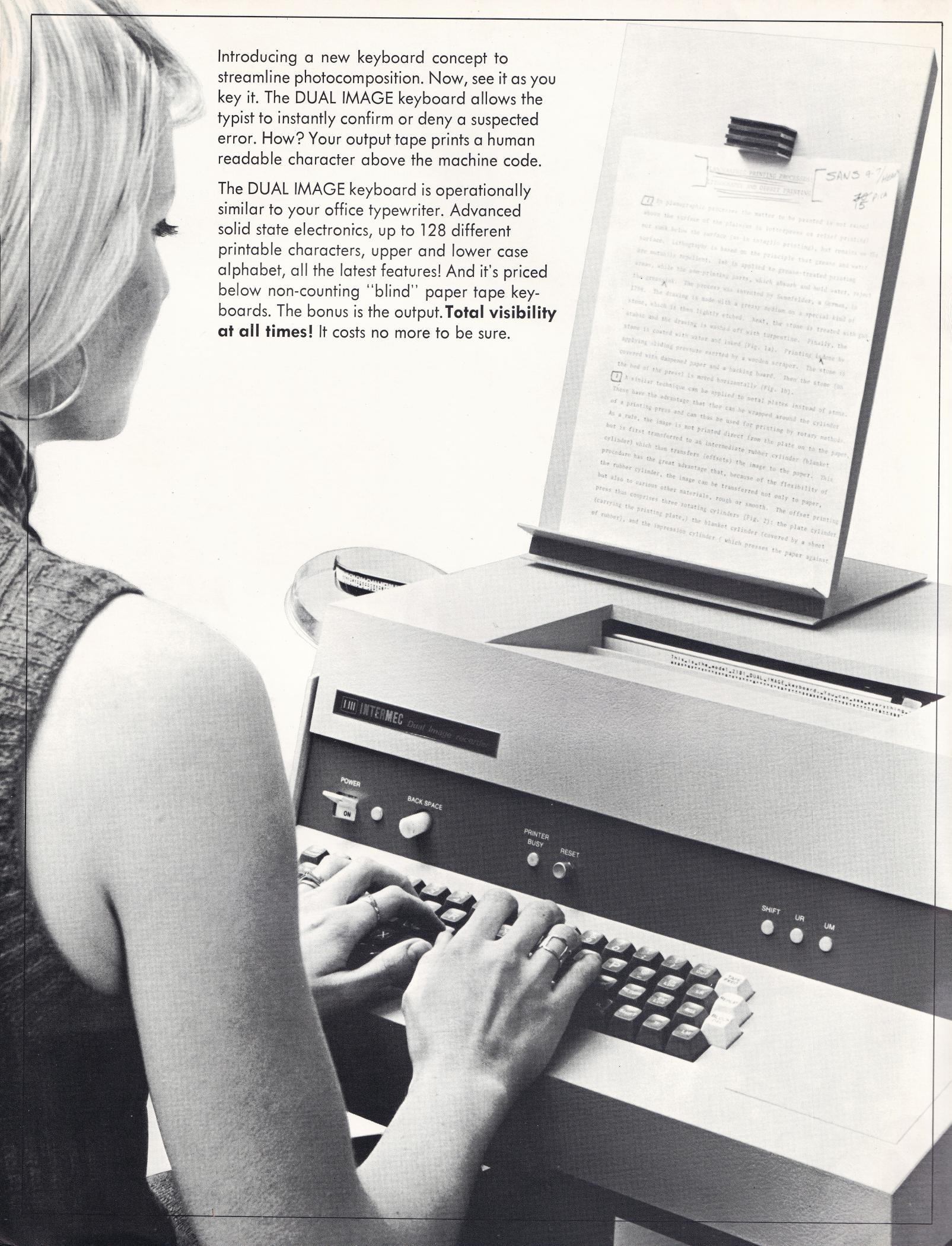
Photocomposition the DUAL IMAGE™ way... increases accuracy and lowers cost



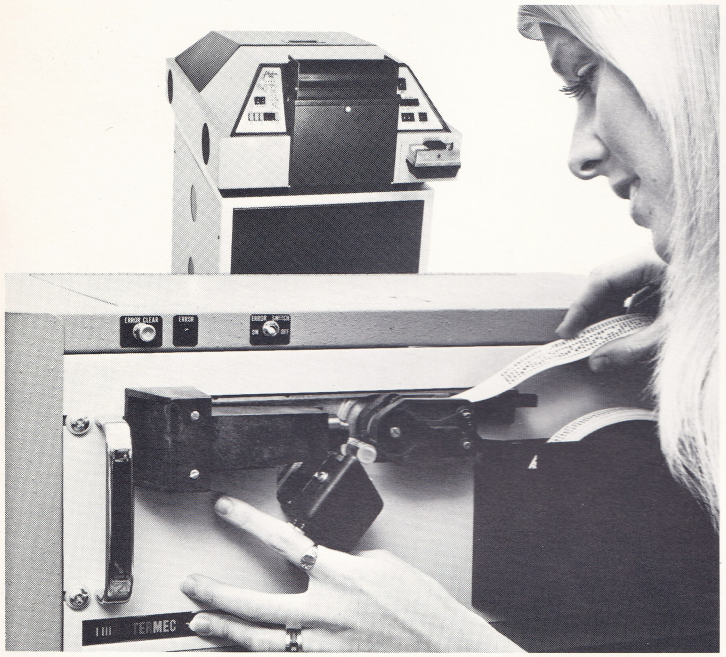
INTERMEC®
Interface Mechanisms, Inc., 5503-232nd St., S.W., Mountlake Terrace, WA 98043
Phone (206) 774-3511. TWX 910-449-2854.



Introducing a new keyboard concept to streamline photocomposition. Now, see it as you key it. The DUAL IMAGE keyboard allows the typist to instantly confirm or deny a suspected error. How? Your output tape prints a human readable character above the machine code.

The DUAL IMAGE keyboard is operationally similar to your office typewriter. Advanced solid state electronics, up to 128 different printable characters, upper and lower case alphabet, all the latest features! And it's priced below non-counting "blind" paper tape keyboards. The bonus is the output. **Total visibility at all times!** It costs no more to be sure.

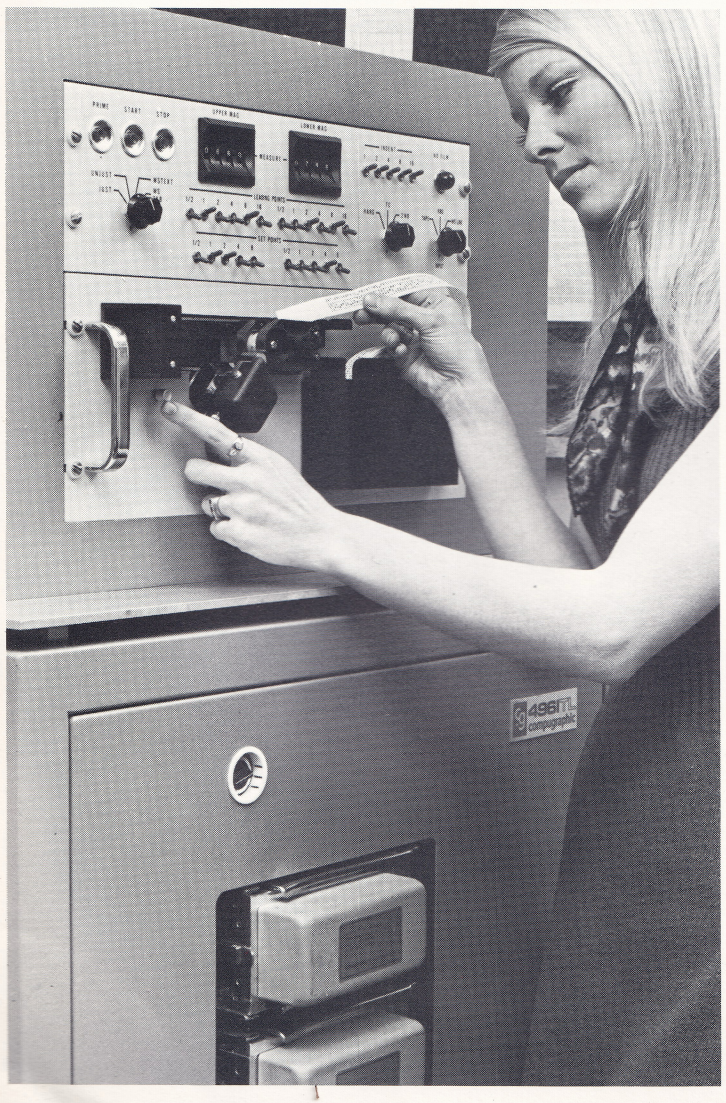
DUAL IMAGE talks to you and your photocomposer in English



New man/machine interface

Just as modern photocomposers can now be addressed in English, so can DUAL IMAGE tape talk to you. In English!

DUAL IMAGE truly enhances a modern phototypesetting system. Both text characters and typesetting commands are displayed in human readable terms. On the tape! DUAL IMAGE closes the loop in the man/machine interface. Not only can you direct your typesetter in English, you can now read the input. When you specify line length in picas and points, DUAL IMAGE lets you read what the machine will read.



Compatible

DUAL IMAGE even peacefully co-exists with paper tape. A transfer switch allows interchangeability between paper tape input and DUAL IMAGE input without your mini or typesetter knowing the difference. That means you can start using DUAL IMAGE keyboards immediately and still retain your paper tape set-up.

The following photocomposers are compatible with DUAL IMAGE tape:

- ☐ The Compugraphic 2961 and 4961 family
- ☐ The Photon Pacesetter series
- ☐ The Varityper 700 series
- ☐ The Harris-Intertype Fototronic TXT and 600
- ☐ The Singer Graphic Systems Photomix 8000 series
- ☐ The Mergenthaler VIP
- ☐ DEC PDP 8 and PDP 11 minicomputers
- ☐ Plus any others that operate from six level unjustified tape.

Regardless of your preference in phototypesetters, specify DUAL IMAGE keyboards.

why pay the price of galley corrections!

Key with confidence

The secret to avoiding the cost of galley corrections is clean tape. And DUAL IMAGE delivers clean tape. How? It starts with visual feedback at the keyboard. See as you key!

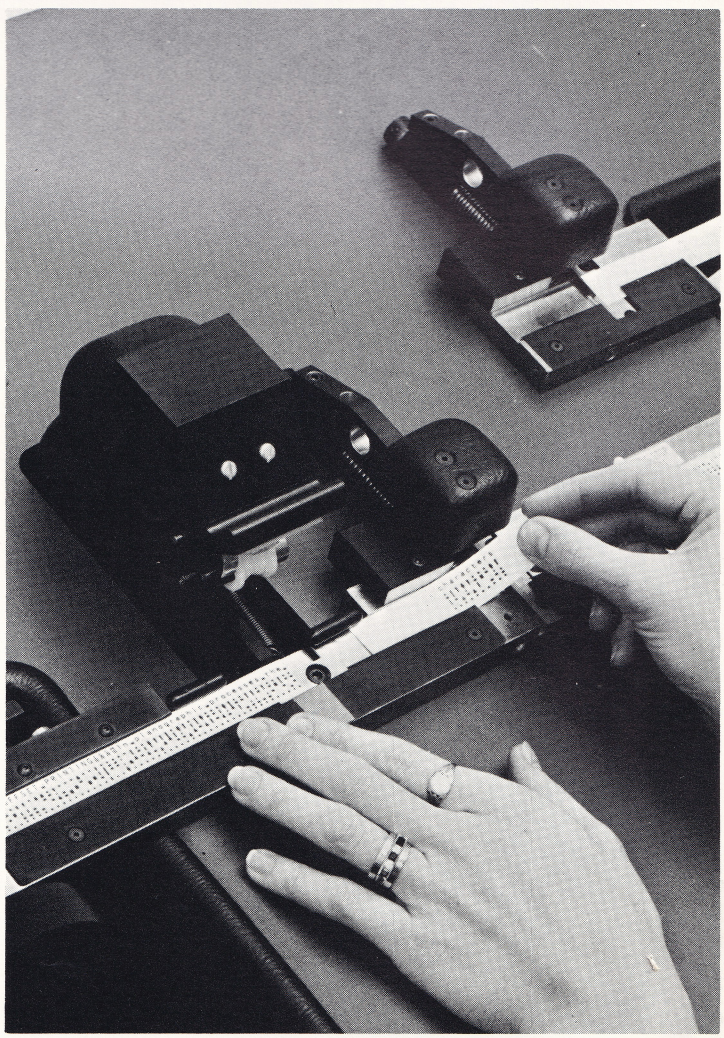
Suspected errors are easily detected. Corrections are easily accomplished. If your operator sees an error, she fixes it with simple keystrokes or an ordinary lead pencil.

And you don't sacrifice typing speed to achieve clean tape. Even at maximum rough draft typing speeds, your operator has the confidence of knowing the accuracy of her output.

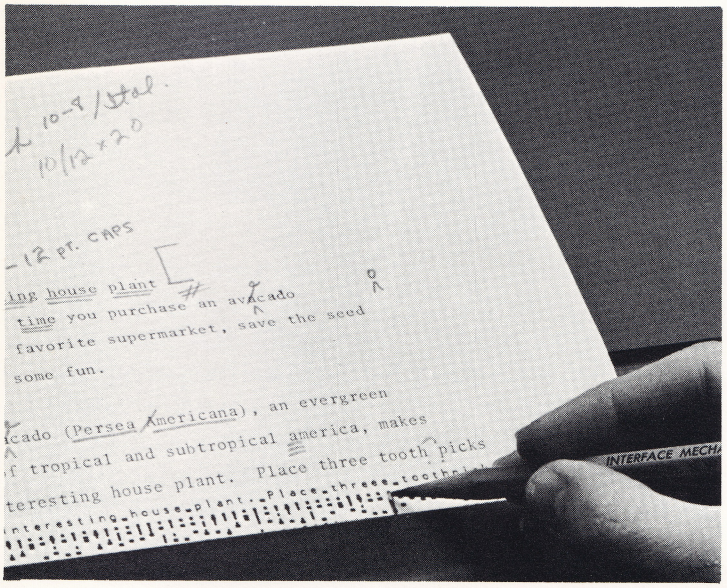
A bonus feature with DUAL IMAGE is overlay proofreading. DUAL IMAGE tape is hard copy. A single operator can easily proof the finished tape against the manuscript and she can do it with higher accuracy than conventional proofreading methods.

Manuscript changes

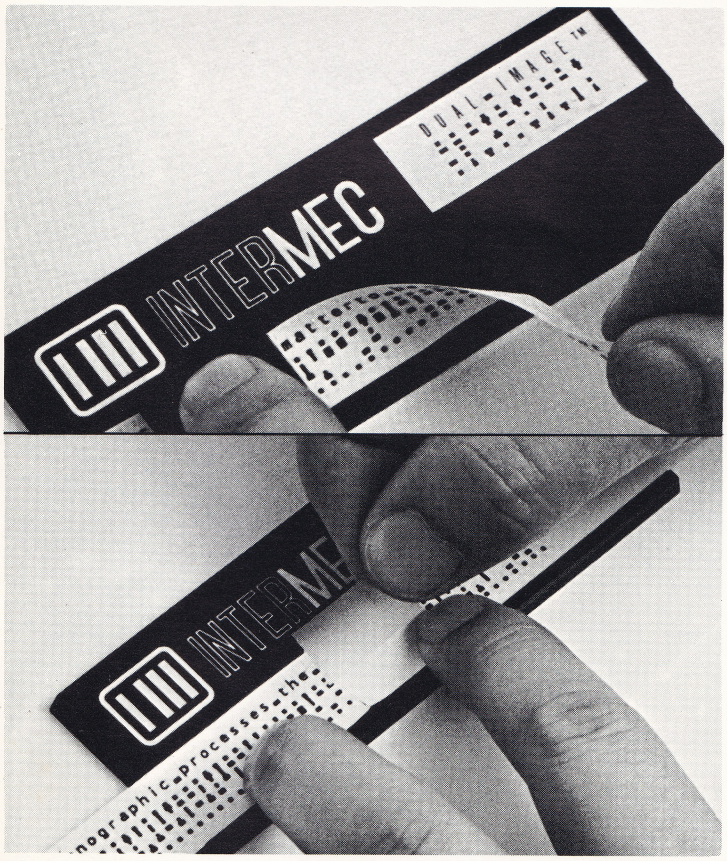
When text or typographic changes to galley are necessary, DUAL IMAGE lets you correct the tape and re-typeset the needed portion. Tape correction is a cinch. Pencil delete the unwanted characters. Key only the necessary new ones. Scotch tape splice them into place. Use white space in the correction tape to make the job easy. Rough and ready correction procedures, yet perfect galley copy!



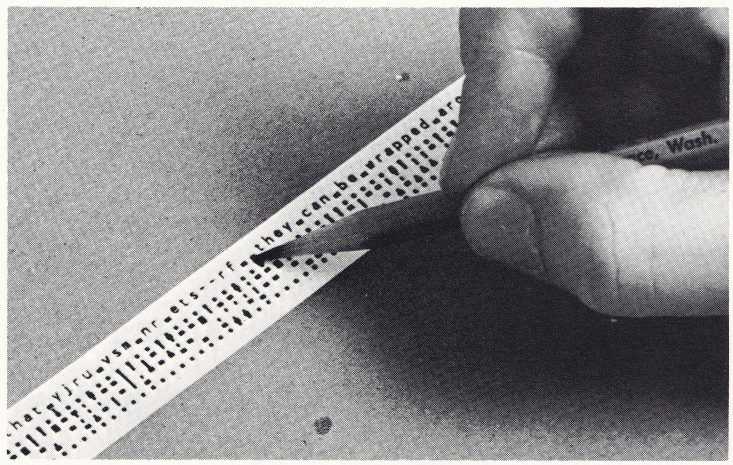
only DUAL IMAGE™ tape offers these unique benefits



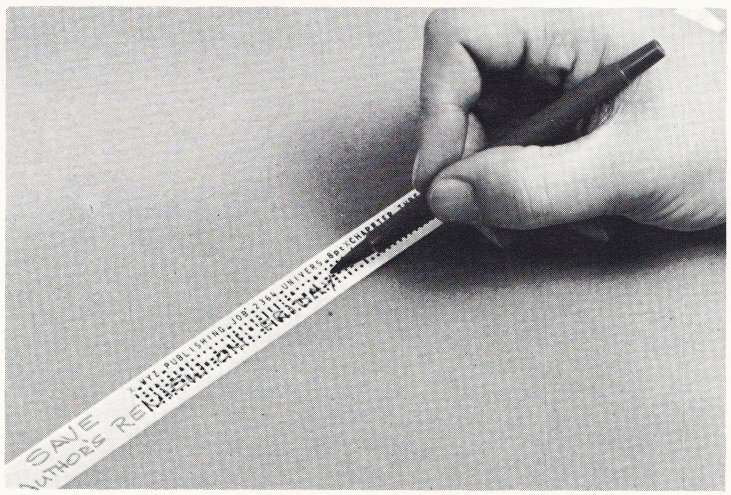
Pencil marking the tape . . . An ordinary lead pencil deletes unwanted characters. Simply draw a line through the character codes as shown above.



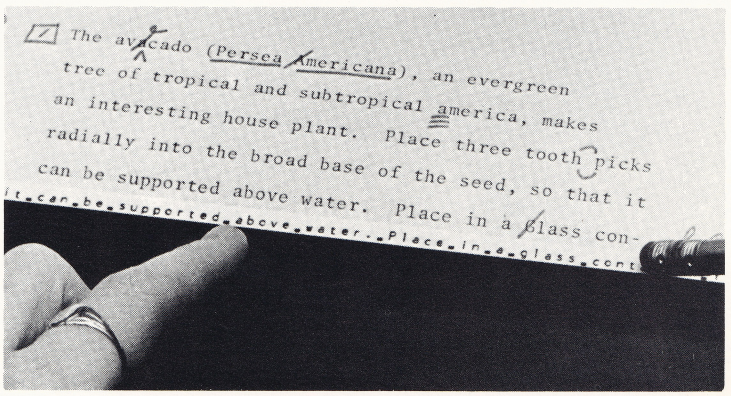
Manual splicing . . . The key to the cost effectiveness of DUAL IMAGE tape is the ability to splice without constraint. Tear the tape and splice in the new characters with scotch tape. White space between characters has no bearing on input operation.



Pencil tick marks . . . A valuable tape correction aid, the tick mark signals the DUAL IMAGE reader to ignore subsequent characters until reaching a second tick mark.

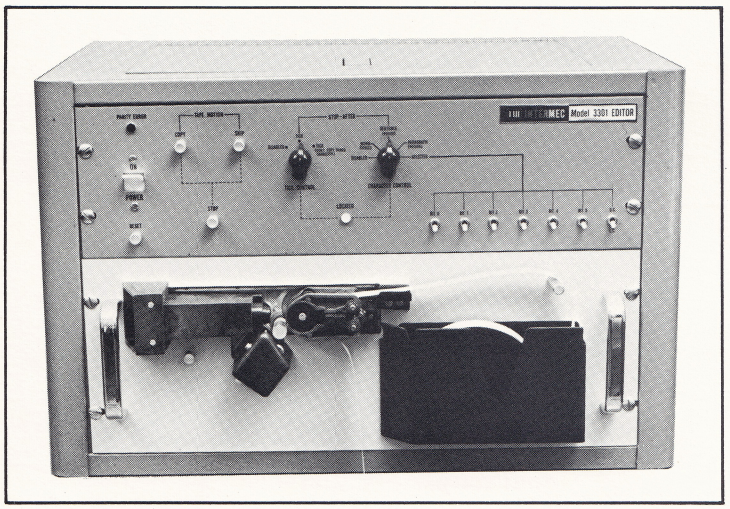


Marking tape with wick pen . . . DUAL IMAGE tape operation or accuracy is not affected by wick pen markings, so label or mark as you choose.

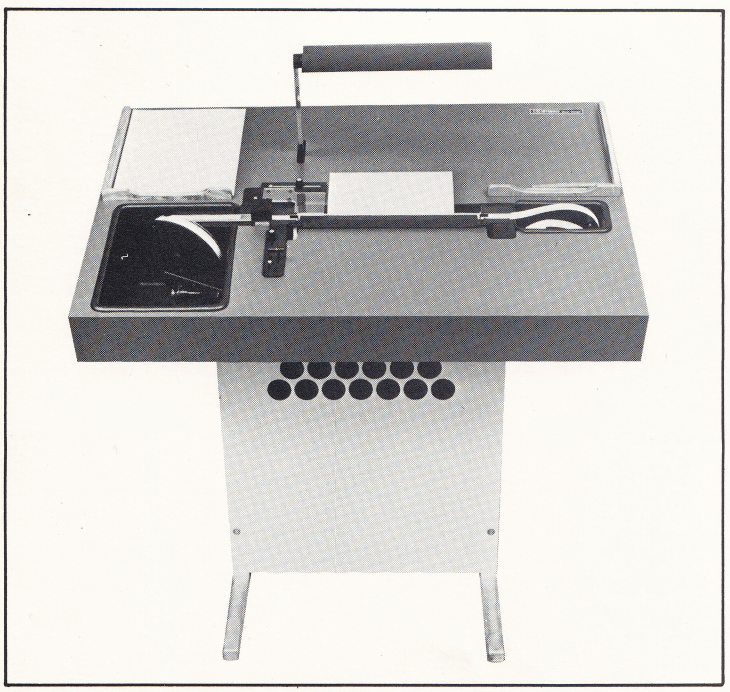


Overlay proofreading . . . Match the characters and proofread vertically. This technique is especially valuable for proofing tape against technical, legal or other highly sensitive manuscripts before photocomposing.

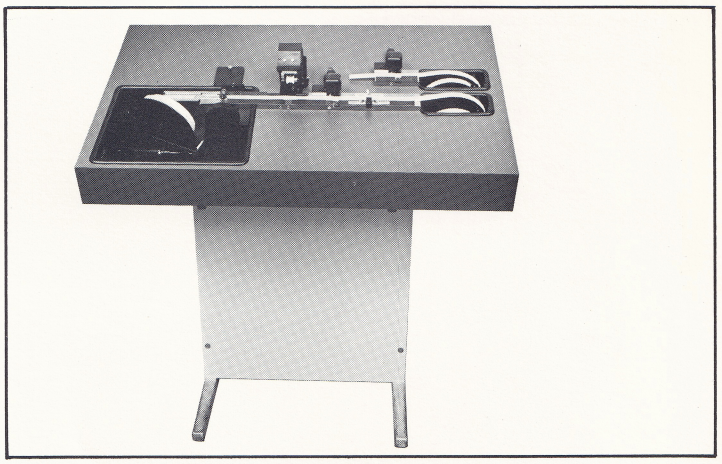
increase efficiency with DUAL IMAGE accessories



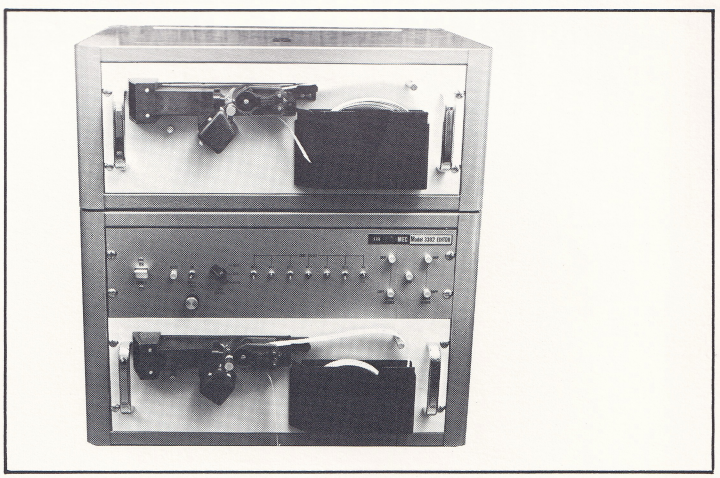
Model 3301 Editor System
This system is used in conjunction with a DUAL IMAGE keyboard to merge information from an old tape and the keyboard to a new tape. The editor logic allows copying or skipping of the old tape with automatic stopping at the desired character or code or at the next tick mark. With DUAL IMAGE you have complete visibility and complete control.



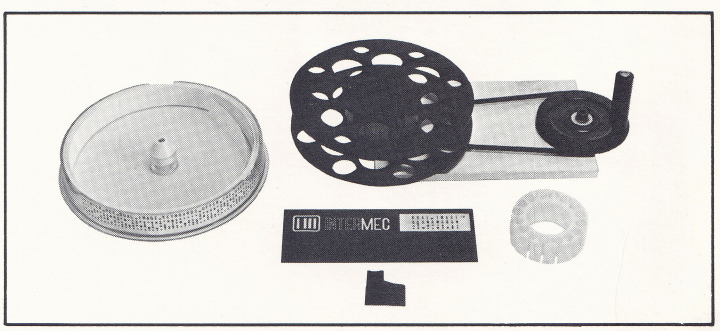
Model 1353 Proofreading Table
This table enhances overlay proofreading of DUAL IMAGE tape. The manuscript is moved with a simple lever. The tape is advanced from the supply basket across the manuscript to the take-up dish manually. Machine codes can be uncovered to make pencil deletes or tick marks. A manually operated error punch is used for automatic error location when also using the model 1354 Correction Table.



Model 1354 Correction Table
This table is used to splice DUAL IMAGE tapes at very high speed. It features a powered tape drive with automatic stop upon detection of an error hole. Precision tape cutters and a scotch tape dispenser/applicator allow you to execute splices very fast.



Model 3302 Editor System
This system incorporates all of the control features of the Model 3301 into a system which allows you to merge from two tapes and the keyboard to a new tape.



Miscellaneous Accessories
Top row: take-up dish, hand winder.
Second row: splicing guide, tape core.
Bottom: splicing tear bar.

a random gallery of successful applications

Manuscript to news stand in five days

A specialty typesetting house for paperbacks, juveniles, and periodicals in the New York metropolitan area chose DUAL IMAGE when they went photocomp. The DUAL IMAGE keyboard made the transition from mag tape strike-on easy on the keyboard operators. Part of their prime business competitiveness is turn-around time.

"We knew that photocomp was going to be much faster, but we were skeptical of the salesman's claim that keyboarding speeds would also improve. We were pleasantly surprised to find both speed and accuracy much improved. We now have two of our five operators keying in excess of 36,000 keystrokes per hour for a seven hour day with fantastic accuracy. On a rush job we sometimes don't even look at the galley. Recently, we did a 400 page hardback in three days. It was on the newsstands two days later. Who says publishing is a slow business!"

"Another benefit we didn't anticipate was greater efficiency in our composing room. Because you can type human readable information on the tapes, we included job control information right from the start. There is no excuse for a typeface foul-up anymore."

Legal and financial printer

"Our work is legal codes for the towns and counties of our area and financial jobs such as prospectus'. The language used in these documents is unnatural to most people, but the job must be correct. With DUAL IMAGE, our operators are more accurate at the keyboard. A few errors still slip through however, and until DUAL IMAGE overlay proof-reading came along we just did not have a good way to find them. We tried copyreading with two operators and galley to manuscript reading with a highly trained legal secretary. But, too many errors still got through to the customer. Now, we use one high school graduate at our DUAL IMAGE proofreading table. When an error slips by her, it's an unusual event!"

"Of course, correction of the errors she finds is easy. She makes all the deletions on the spot. She marks the tape and the manuscript for characters which were omitted. We use a splicing table that automatically finds the insertion point in the tape. The galley is right every time."

"Our legal code work is a repeat business. When laws are revised we retrieve our original tape and revise it rather than retypeset the whole job. Storage cost is 1/50th the cost of our old magnetic tape system."

Photocomp with small capital investment

Several commercial type houses, small weekly newspapers and end user customers in the Seattle area are proving that "you don't have to own one to use one". These businesses are preparing their own tape on their own DUAL IMAGE keyboards and then purchasing photocomposer time from a local installation.

With DUAL IMAGE, typehouses are sure of keying and sure the right tape is sent out. All billing and job set-up information appears at the beginning of each tape. There is no need for additional paper work. The tape is the prime document.

Some users are working with material that must be absolutely perfect. Tape must be proofed and corrected on the job site. When questions occur, people with the answers are there. You can control your own typesetting without owning a photocomposer.

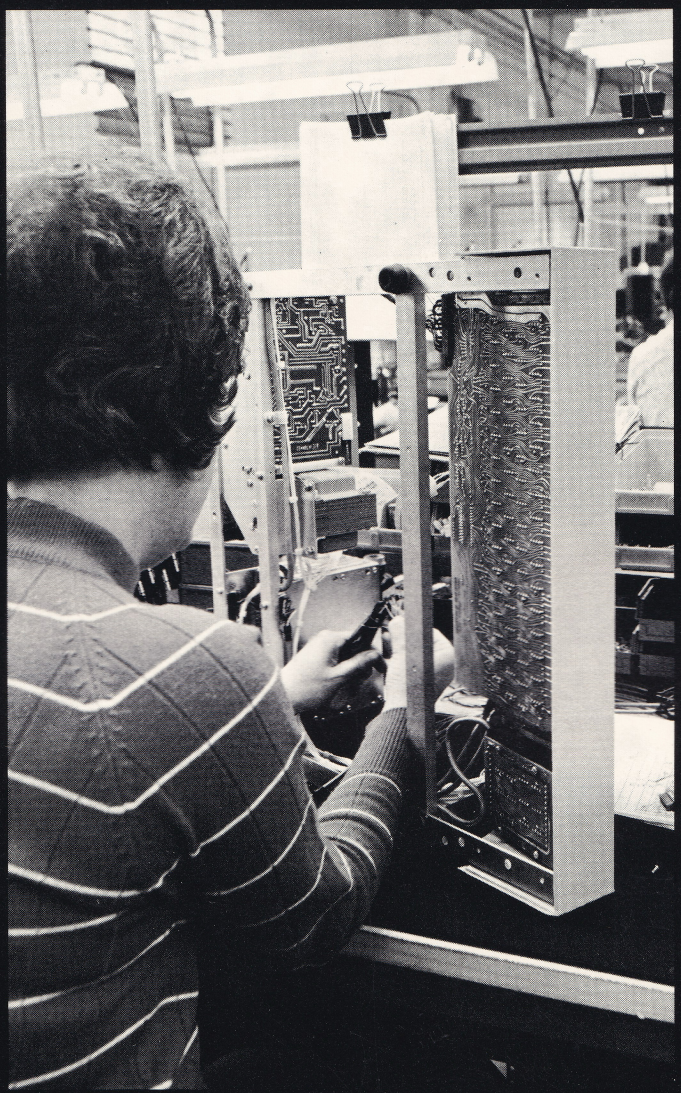
Authors' alterations

An in-house printing group for a large corporation does many frequently revised procedural manuals.

According to the group head, "We try to get a new manual on DUAL IMAGE as soon as possible. During the drafting and rewrite stages, we typeset with abundant leading so that the author has room for mark up. The first draft changes are generally big. Our DUAL IMAGE editor allows us to handle these massive changes easily. We never rekey good keystrokes. We just copy them onto our new tape. We even move entire paragraphs around by skipping about in the old tape at the editor. DUAL IMAGE is a low cost standing type".

"When the revision involves only a small number of changes, we go right to our keyboard and type our correction fragments. Then we splice them into the old tape. At first we thought it would be difficult for the operator to find her place rapidly. We quickly learned how to use white space in the tape between paragraphs and to make liberal use of different color wick pens to set up a rapid indexing system."

"Our tapes sometimes look pretty grubby, but our galleys are 'camera ready'. We really use our typesetter as a highspeed, high-quality power typing machine. And our typists have the advantage of the most advanced keyboard on the market."



Intermec has invested over 4½ years of research and development effort in DUAL IMAGE printed code technology. The company has both domestic and international OEM and end-user customers. Its modern manufacturing plant is located in the Seattle suburb of Mountlake Terrace, Washington. Products include input and editing systems for photocomposition machinery used in graphic arts. The company also produces bar code printers which make labels for identifying articles in point-of-sale transaction recording and automated materials handling applications.

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